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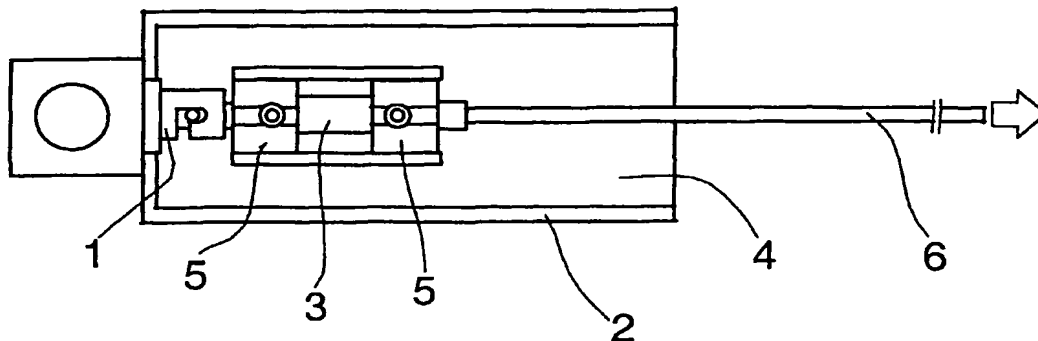
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(54) Title: A PROCESS FOR THE REDUCTION OF THE RESIDUAL MONOMER CONTENT OF WATER-ABSORBENT FOAM



(57) Abstract: A process for the reduction of the residual monomer content and enhancement of the wet strength of articles formed from water absorbent crosslinked polymer foams containing units derived from monoethylenically unsaturated acids, which comprises treating the formed articles with at least 0.5% by weight of a polymer containing primary and/or secondary amino groups and having a molar mass of at least 300, the formed foam articles thus obtainable and use of the wet strength enhanced formed foam articles in hygiene articles.

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# INTERNATIONAL SEARCH REPORT

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## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C08J9/36 C08L101/14 C08F6/10

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C08J C08F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4 766 173 A (BAILEY KRISTY M ET AL) 23 August 1988 (1988-08-23) claims	1-10
Y	US 4 147 845 A (PETERSEN JORGEN) 3 April 1979 (1979-04-03) claims	1-10

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Patent family members are listed in annex.

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4766173	A	23-08-1988	DE 3816252 A1 ES 2006651 A6 GB 2211851 A ,B ZA 8803352 A	24-11-1988 01-05-1989 12-07-1989 25-01-1989
US 4147845	A	03-04-1979	SE 429238 B AT 379162 B AT 386279 A AU 512761 B2 AU 4720079 A BE 876836 A1 CA 1105650 A1 CH 642384 A5 DE 2923310 A1 DK 238379 A FI 781847 A ,B, FR 2428057 A1 GB 2025429 A ,B IT 1116551 B JP 1204105 C JP 54163966 A JP 58035618 B NL 7904447 A ,B, NO 791908 A ,B, SE 7806665 A	22-08-1983 25-11-1985 15-04-1985 23-10-1980 13-12-1979 07-12-1979 21-07-1981 13-04-1984 13-12-1979 09-12-1979 09-12-1979 04-01-1980 23-01-1980 10-02-1986 25-04-1984 27-12-1979 03-08-1983 11-12-1979 11-12-1979 09-12-1979